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	Application No.	Applicant(s)	
Notice of Allowability	10/695,872	MATSUNAGA ET AL.	
	Examiner	Art Unit	
	Eric S. McCall	2855	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in i) or other appropriate commu RIGHTS. This application is s	this application. If not included nication will be mailed in due cours	
1. \boxtimes This communication is responsive to <u>the application as or</u>	riginally filed on Oct. 30, 2003	,	
2. The allowed claim(s) is/are <u>1-4</u> .			
3. The drawings filed on 30 October 2003 are accepted by the	he Examiner.		
 4. Acknowledgment is made of a claim for foreign priority unit a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 1. Certified copies not received: * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submarted in the submarted part of the priority of the latest of the priority of the lat	re been received. re been received in Application occuments have been received. " of this communication to file MENT of this application. mitted. Note the attached EXA ves reason(s) why the oath or just be submitted. rson's Patent Drawing Review r's Amendment / Comment or 1.84(c)) should be written on the the header according to 37 CF osit of BIOLOGICAL MATE	n No I in this national stage application from this national stage application from the requirem a reply complying with the requirem MINER'S AMENDMENT or NOTIC declaration is deficient. I (PTO-948) attached in the Office action of the drawings in the front (not the back) R 1.121(d). ERIAL must be submitted. Note the	nents E OF
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB. Paper No./Mail Date 10/30/03 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview St Paper No./ /08), 7. ☐ Examiner's		

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EGR-GAS FLOW RATE ESTIMATION APPARATUS FOR
INTERNAL COMBUSTION ENGINE

REASONS FOR ALLOWANCE

The following is an Examiner's statement of reasons for allowance:

Claim 1 has been found to be allowable over the prior art because the prior art fails to teach or suggest an EGR-gas flow rate estimation apparatus for an internal combustion engine comprising, in combination with the other limitations of said claim:

provisional-EGR-gas-flow-rate estimation "means for" (35 USC 112, sixth paragraph) estimating, as a provisional EGR gas flow rate, a flow rate of EGR gas passing through the EGR control valve, by use of a general formula which represents a flow rate of a compressible fluid passing through a throttle portion on the basis of an upstream pressure of the compressible fluid at a point immediately before the throttle portion and a downstream pressure of the compressible fluid at a point immediately after the throttle portion; and

EGR-gas flow rate estimation "means for" (35 USC 112, sixth paragraph) estimating the flow rate of EGR gas flowing from the exhaust circulation pipe into the intake passage, by correcting an error which is contained in the estimated provisional EGR gas flow rate and which is caused by pipe friction between the exhaust circulation pipe and the EGR gas,

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Claims 2-4 have been found allowable over the prior art due to said claims' dependency

on claim 1.

CONCLUSION

Any comments considered necessary by the Applicant must be submitted no later than

the payment of the issue fee and, to avoid processing delays, should preferably accompany the

issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the

Examiner should be directed to Eric S. McCall whose telephone number is (571) 272-2183.

The fax phone number for the organization where this application or proceeding is

assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Eric S. McCall Primary Examiner

Art Unit 2855 Dec. 07, 2004

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